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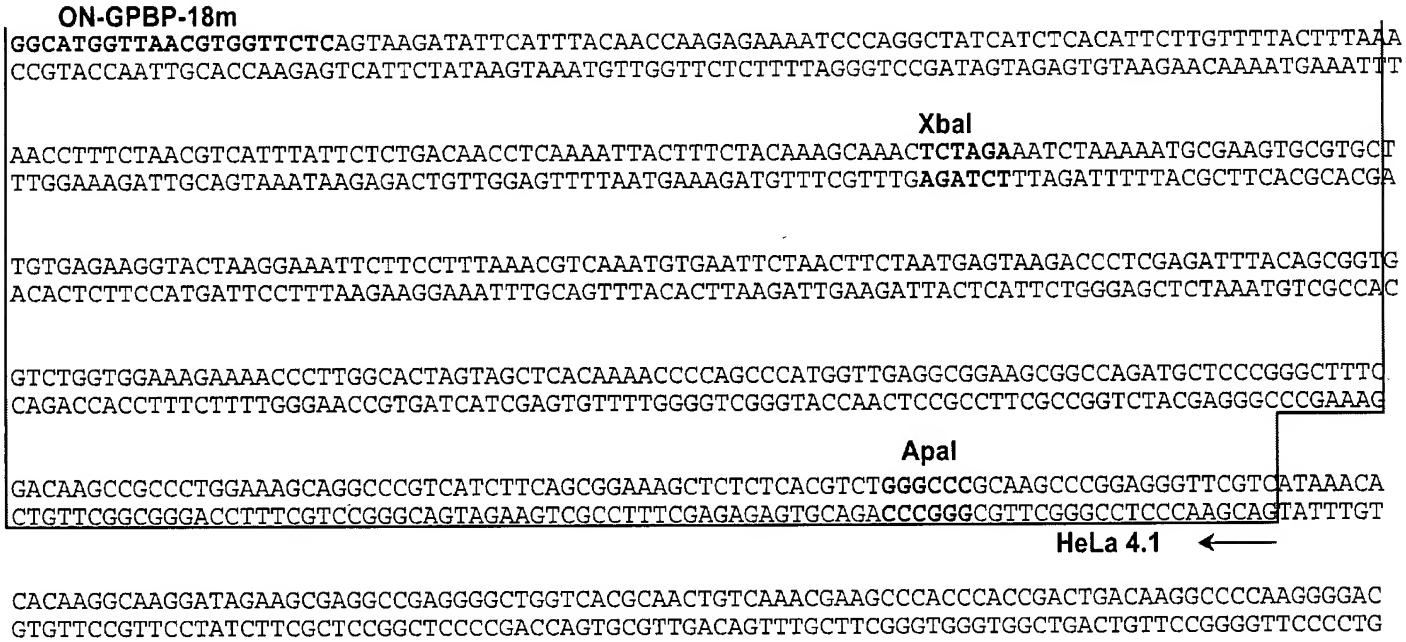

FIGURE 1a

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FIGURE 1b

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FIGURE 2

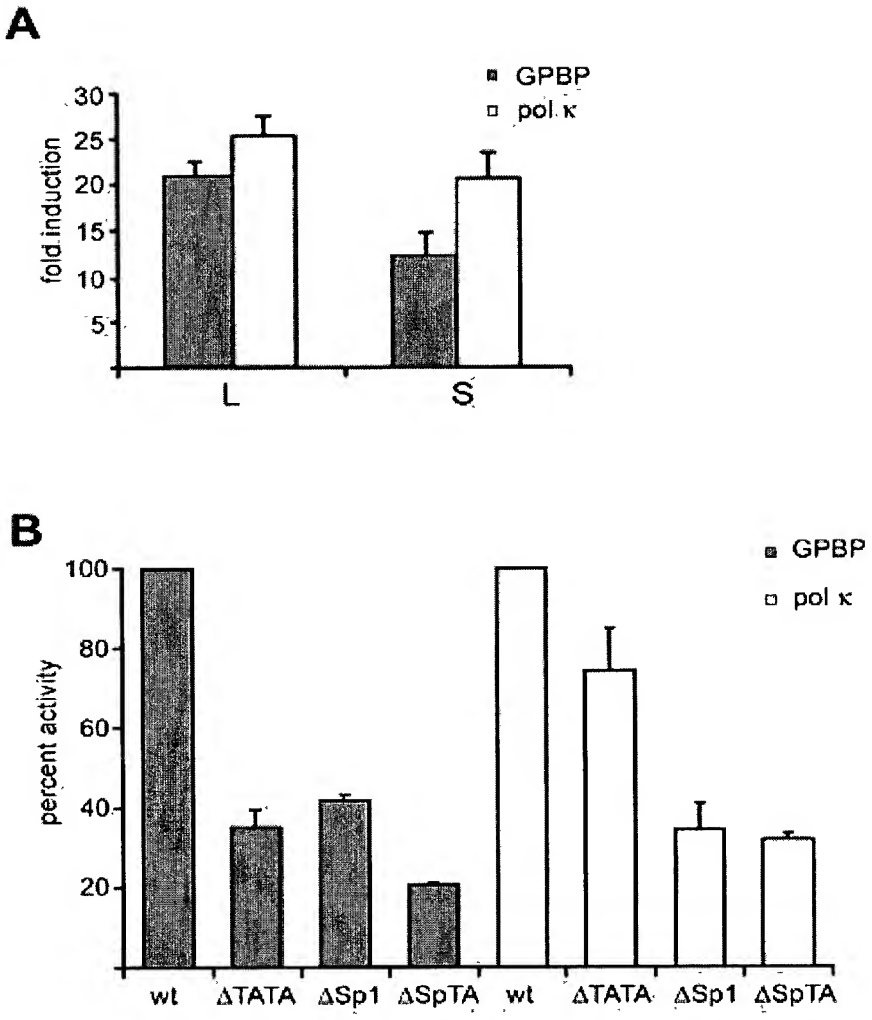

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FIGURE 3

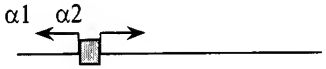
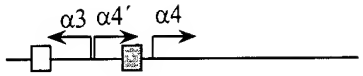
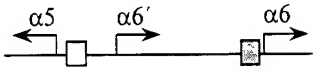
	COL4A3BP ▩	*POLK* □	Alignment map*
COL4A1-A2 ($\alpha_1\alpha_2$) GenBank no. M36963	Region aligned 469-608 Q=620; $E(Q)$=591.4±17.1 z=1.6725, ***P*=0.00472**	Region aligned 583-722 Q=580; $E(Q)$=571±19 z=0.4737, P=0.3179	
COL4A3-A4 ($\alpha_3\alpha_4$) GenBank no. AF218541	Region aligned 849-990 Q=674; $E(Q)$=568.7±17.5 z=6.0171, ***P*<0.0001**	Region aligned 182-318 Q=641; $E(Q)$=557.5±18.4 z=4.5380, ***P*<0.0001**	
COL4A5-A6 ($\alpha_5\alpha_6$) GenBank no. D28116	Region aligned 1714-1853 Q=570; $E(Q)$=524.2±18.4 z=2.4891, ***P*=0.0064**	Region aligned 440-579 Q=570; $E(Q)$=527.4±17.3 z=2.4624, ***P*=0.0069**	

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FIGURE 4

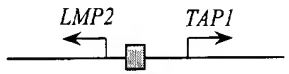
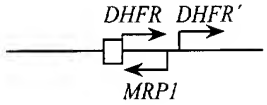
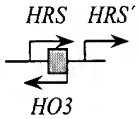
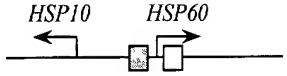
	COL4A3BP ▨	*POLK* □	Alignment map*
LMP2-TAP1 GenBank no. X66401	Region aligned 24579-24718 *Q*=610; *E*(*Q*)=549.9±16.9 *z*=3.5562, ***P*=0.0002**	Region aligned 27355-27494 *Q*=620; *E*(*Q*)=582.8±18.6 *z*=2, *P*=0.0228	
MRP1-DHFR GenBank no. K01612	Region aligned 849-991 *Q*=581; *E*(*Q*)=557.7±20.8 *z*=1.1202, *P*=0.1313	Region aligned 704-843 *Q*=640; *E*(*Q*)=553.4±18.1 *z*=4.7845, ***P*<0.0001**	
GPAT-AIRC GenBank no. U00239	Region aligned 632-769 *Q*=554; *E*(*Q*)=573.4±20.4 *z*=-0.9510, *P*=0.8292	Region aligned 561-705 *Q*=565; *E*(*Q*)=549.4±18.4 *z*=0.8478, *P*=0.1983	
HO3-HRS GenBank no. M96646	Region aligned 313-452 *Q*=600; *E*(*Q*)=531±17.5 *z*=3.9429, ***P*<0.0001**	Region aligned 214-353 *Q*=560; *E*(*Q*)=557.1±16.2 *z*=0.1790, *P*=0.4290	
HSP10-HSP60 GenBank no. AJ250915	Region aligned 3451-3590 *Q*=600; *E*(*Q*)=546.7±16.7 *z*=3.1916, ***P*=0.0007**	Region aligned 3684-3821 *Q*=594; *E*(*Q*)=542.6±17.1 *z*=3.0058, ***P*=0.0013**	
IDHG-TRAPD GenBank no. Z68129	Region aligned 16283-16422 *Q*=622; *E*(*Q*)=594.8±16.5 *z*=2.7394, *P*=0.0031	Region aligned 14190-14329 *Q*=610; *E*(*Q*)=601.9±15.5 *z*=0.5226, *P*=0.3006	

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FIGURE 5

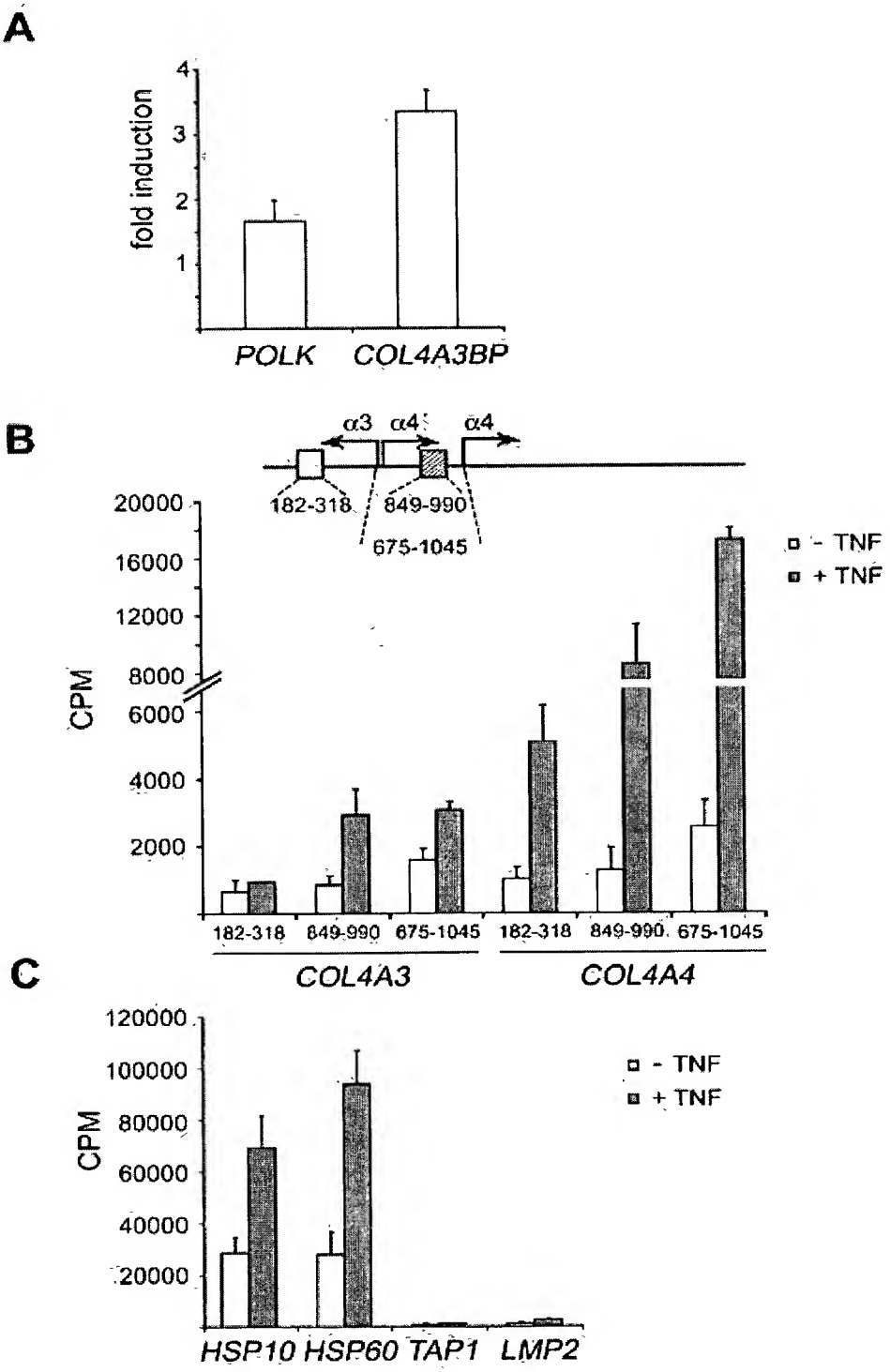

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FIGURE 6

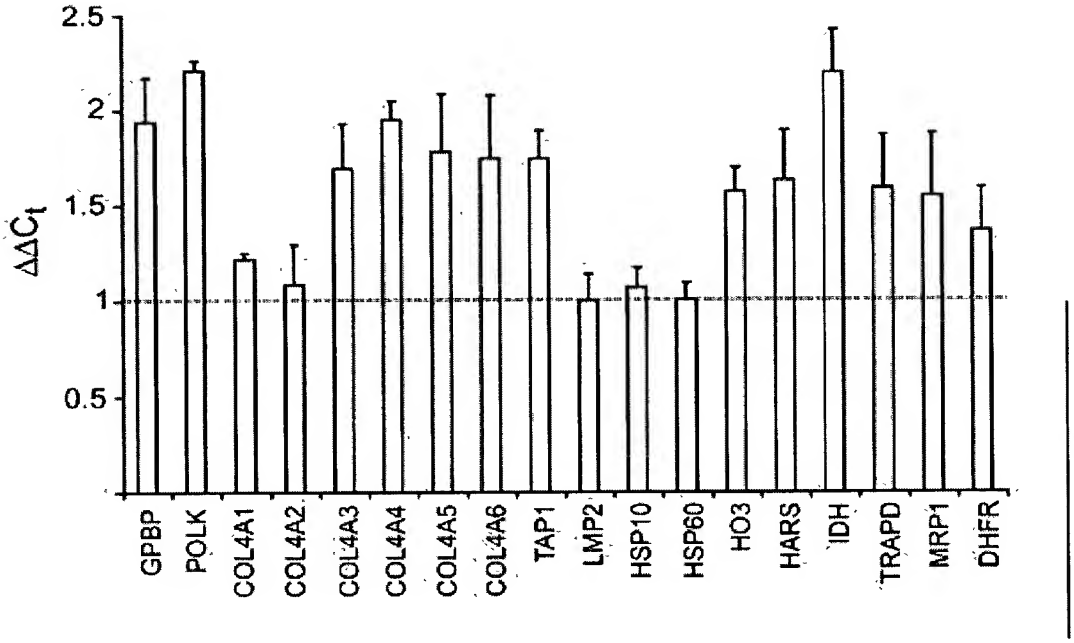

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FIGURE 7

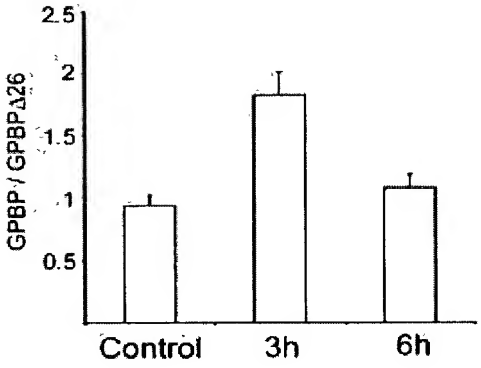

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FIGURE 8

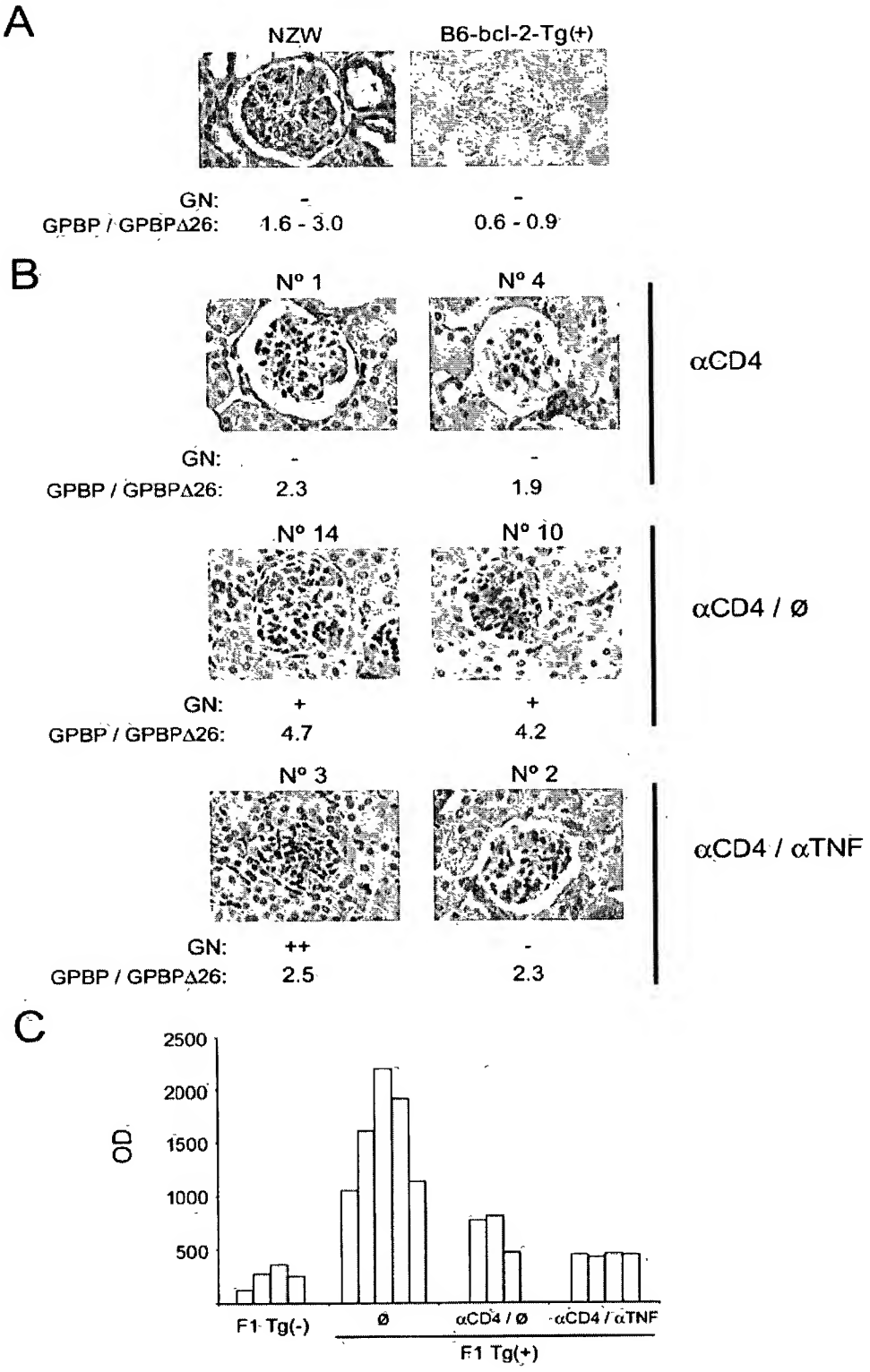

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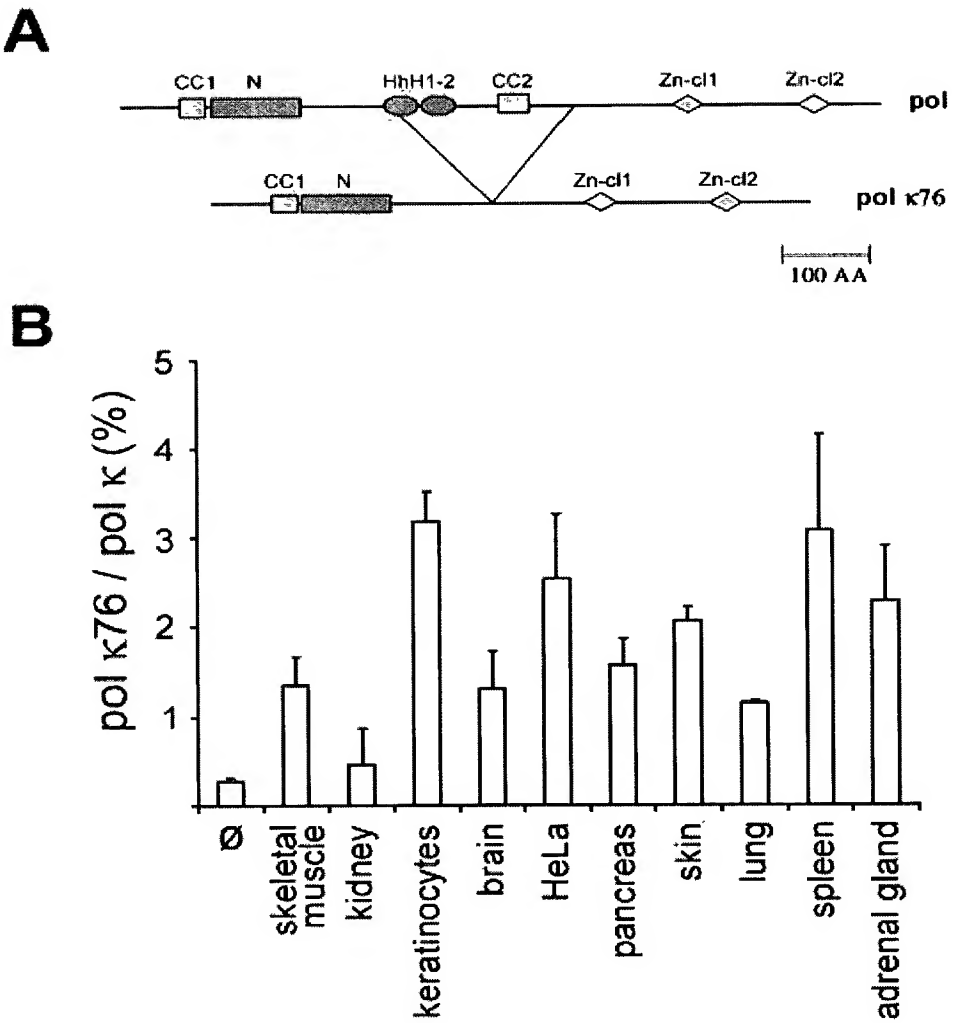
FIGURE 9



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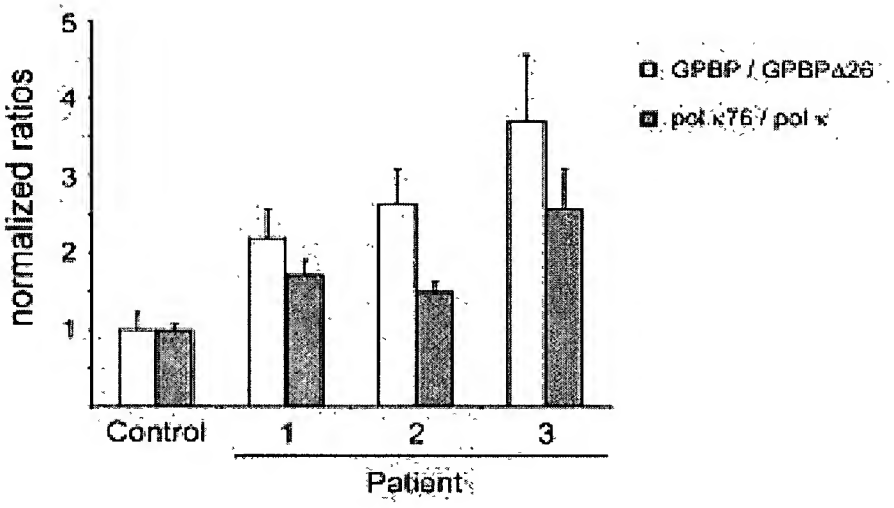
FIGURE 10